



## SEQUENCE LISTING

RECEIVED

OCT 05 2001

TECH CENTER 1600/2900

&lt;110&gt; Conti-Fine, B.

&lt;120&gt; Methods to treat undesirable immune responses

&lt;130&gt; 600.423US1

&lt;140&gt; US 08/991,143

&lt;141&gt; 1997-12-16

&lt;160&gt; 3

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 1667

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

F2

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&lt;210&gt; 2

&lt;211&gt; 457

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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1					5				10					15	

Leu Val Leu Gly Ser Glu His Glu Thr Arg Leu Val Ala Lys Leu Phe  
 20 25 30  
 Lys Asp Tyr Ser Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val  
 35 40 45  
 Val Glu Val Thr Val Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp  
 50 55 60  
 Glu Val Asn Gln Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gln Trp  
 65 70 75 80  
 Val Asp Tyr Asn Leu Lys Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys  
 85 90 95  
 Lys Ile His Ile Pro Ser Glu Lys Ile Trp Arg Pro Asp Leu Val Leu  
 100 105 110  
 Tyr Asn Asn Ala Asp Gly Asp Phe Ala Ile Val Lys Phe Thr Lys Val  
 115 120 125  
 Leu Leu Gln Tyr Thr Gly His Ile Thr Trp Thr Pro Ala Ile Phe  
 130 135 140  
 Lys Ser Tyr Cys Glu Ile Val Thr His Phe Pro Phe Asp Glu Gln  
 145 150 155 160  
 Asn Cys Ser Met Lys Leu Gly Thr Trp Thr Tyr Asp Gly Ser Val Val  
 165 170 175  
 Ala Ile Asn Pro Glu Ser Asp Gln Pro Asp Leu Ser Asn Phe Met Glu  
 180 185 190  
 Ser Gly Glu Trp Val Ile Lys Glu Ser Arg Gly Trp Lys His Ser Val  
 195 200 205  
 F2 Thr Tyr Ser Cys Cys Pro Asp Thr Pro Tyr Leu Asp Ile Thr Tyr His  
 210 215 220  
 Phe Val Met Gln Arg Leu Pro Leu Tyr Phe Ile Val Asn Val Ile Ile  
 225 230 235 240  
 Pro Cys Leu Leu Phe Ser Phe Leu Thr Gly Leu Val Phe Tyr Leu Pro  
 245 250 255  
 Thr Asp Ser Gly Glu Lys Met Thr Leu Ser Ile Ser Val Leu Leu Ser  
 260 265 270  
 Leu Thr Val Phe Leu Leu Val Ile Val Glu Leu Ile Pro Ser Thr Ser  
 275 280 285  
 Ser Ala Val Pro Leu Ile Gly Lys Tyr Met Leu Phe Thr Met Val Phe  
 290 295 300  
 Val Ile Ala Ser Ile Ile Thr Val Ile Val Ile Asn Thr His His  
 305 310 315 320  
 Arg Ser Pro Ser Thr His Val Met Pro Asn Trp Val Arg Lys Val Phe  
 325 330 335  
 Ile Asp Thr Ile Pro Asn Ile Met Phe Phe Ser Thr Met Lys Arg Pro  
 340 345 350  
 Ser Arg Glu Lys Gln Asp Lys Lys Ile Phe Thr Glu Asp Ile Asp Ile  
 355 360 365  
 Ser Asp Ile Ser Gly Lys Pro Gly Pro Pro Pro Met Gly Phe His Ser  
 370 375 380  
 Pro Leu Ile Lys His Pro Glu Val Lys Ser Ala Ile Glu Gly Ile Lys  
 385 390 395 400  
 Tyr Ile Ala Glu Thr Met Lys Ser Asp Gln Glu Ser Asn Asn Ala Ala  
 405 410 415  
 Ala Glu Trp Lys Tyr Val Ala Met Val Met Asp His Ile Leu Leu Gly  
 420 425 430  
 Val Phe Met Leu Val Cys Ile Ile Gly Thr Leu Ala Val Phe Ala Gly  
 435 440 445  
 Arg Leu Ile Glu Leu Asn Gln Gln Gly  
 450 455

<210> 3  
 <211> 437  
 <212> PRT  
 <213> Torpedo californica

<400> 3  
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 1 5 10 15  
 Lys Val Ile Arg Pro Val Glu His His Thr His Phe Val Asp Ile Thr  
 20 25 30  
 Val Gly Leu Gln Leu Ile Gln Leu Ile Ser Val Asp Glu Val Asn Gln  
 35 40 45  
 Ile Val Glu Thr Asn Val Arg Leu Arg Gln Gln Trp Ile Asp Val Arg  
 50 55 60  
 Leu Arg Trp Asn Pro Ala Asp Tyr Gly Gly Ile Lys Lys Ile Arg Leu  
 65 70 75 80  
 Pro Ser Asp Asp Val Trp Leu Pro Asp Leu Val Leu Tyr Asn Asn Ala  
 85 90 95  
 Asp Gly Asp Phe Ala Ile Val His Met Thr Lys Leu Leu Leu Asp Tyr  
 100 105 110  
 Thr Gly Lys Ile Met Trp Thr Pro Ala Ile Phe Lys Ser Tyr Cys  
 115 120 125  
 Glu Ile Ile Val Thr His Phe Pro Phe Asp Gln Gln Asn Cys Thr Met  
 130 135 140  
 Lys Leu Gly Ile Trp Thr Tyr Asp Gly Thr Lys Val Ser Ile Ser Pro  
 145 150 155 160  
 Glu Ser Asp Arg Pro Asp Leu Ser Thr Phe Met Glu Ser Gly Glu Trp  
 165 170 175  
 Val Met Lys Asp Tyr Arg Gly Trp Lys His Trp Val Tyr Tyr Thr Cys  
 180 185 190  
 Cys Pro Asp Thr Pro Tyr Leu Asp Ile Thr Tyr His Phe Ile Met Gln  
 195 200 205  
 Arg Ile Pro Leu Tyr Phe Val Val Asn Val Ile Ile Pro Cys Leu Leu  
 210 215 220  
 Phe Ser Phe Leu Thr Gly Leu Val Phe Tyr Leu Pro Thr Asp Ser Gly  
 225 230 235 240  
 Glu Lys Met Thr Leu Ser Ile Ser Val Leu Leu Ser Leu Thr Val Phe  
 245 250 255  
 Leu Leu Val Ile Val Glu Leu Ile Pro Ser Thr Ser Ser Ala Val Pro  
 260 265 270  
 Leu Ile Gly Lys Tyr Met Leu Phe Thr Met Ile Phe Val Ile Ser Ser  
 275 280 285  
 Ile Ile Ile Thr Val Val Val Ile Asn Thr His His Arg Ser Pro Ser  
 290 295 300  
 Thr His Thr Met Pro Gln Trp Val Arg Lys Ile Phe Ile Asp Thr Ile  
 305 310 315 320  
 Pro Asn Val Met Phe Phe Ser Thr Met Lys Arg Ala Ser Lys Glu Lys  
 325 330 335  
 Gln Glu Asn Lys Ile Phe Ala Asp Asp Ile Asp Ile Ser Asp Ile Ser  
 340 345 350  
 Gly Lys Gln Val Thr Gly Glu Val Ile Phe Gln Thr Pro Leu Ile Lys  
 355 360 365  
 Asn Pro Asp Val Lys Ser Ala Ile Glu Gly Val Lys Tyr Ile Ala Glu  
 370 375 380  
 His Met Lys Ser Asp Glu Glu Ser Ser Asn Ala Ala Glu Glu Trp Lys  
 385 390 395 400  
 Tyr Val Ala Met Val Ile Asp His Ile Leu Leu Cys Val Phe Met Leu  
 405 410 415

F2

Ile Cys Ile Ile Gly Thr Val Ser Val Phe Ala Gly Arg Leu Ile Glu  
420 425 430  
Leu Ser Gln Glu Gly  
435

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